

# SHRIRAM SCHOOL, MAWANA

## Holiday Homework for Summer Vacation

(Session-2021-22)

CLASS-IX

*Dear Students,*

*With summer holidays around the corner, our hearts swell up with a spectrum of emotions.*

*To maintain the educational continuum and to keep in view the rejuvenation you need, an enriching homework for the holidays is designed to keep you constructively busy and put boredom at bay. Continue to read e-newspaper everyday and don't forget to complete your notebooks and assignment of the syllabus covered in online classes during April and May.*

*Don your thinking cap, wear your magic mantle to put forth your creative side. Have fun and frolic, build up your learning activities as a treasure,*

*Hope to see you soon.*

*Happy summers!*

*With best wishes*

*Class-Teacher*

## **ENGLISH**

**1. Read the chapter 'The Sound of Music' 'The Little Girl' and write the character sketches of the following**

- a. Bismillah Khan
- b. Evelyn Glennie
- c. Kezia

**2. Given below are a list of literary devices. Select three poems from the syllabus and highlight the presence of listed literary device while explaining the literary device**

- a. Simile
- b. Metaphor
- c. Personification
- d. Irony
- e. Repetition
- f. Hyperbole

**3. Write articles of 150 to 200 words on the following topic**

- a. Child labour
- b. Global terrorism
- c. Freedom of speech in a democratic nation like India

**4. During covid-19, many people like doctors, helpers etc. have helped all of us. Make a thank you note in the shape of a greeting card. Give your card a colourful look. Keep the following points in mind**

- \* How valuable the help was?
- \*Your feeling of gratitude.

**5. Art Integrated Project on any of the writers from your textbook beehive and moment covered so far giving details about the writer's background, style of writing and contributions (awards and recognition, social works)**

**6. Revise the chapters covered.**

**Note-**The Project should be done on A4 size sheets and in 6 to 10 pages. Use pictures of the writer and frontispiece of his/her major works, graphics, portrait, data, etc. One page each for certificate, Acknowledgement, Index, and introduction and rest of the pages for description.

All the works should be submitted within the first week of July positively.

## HINDI

### I. निम्नलिखित प्रश्नों के उत्तर दीजिये :

1. "दो बैलों की कथा" में गधे का छोटा भाई किसे कहा गया है और क्यों?
2. हीरा और मोती गया के साथ क्यों नहीं जाना चाहते थे?
3. दोनों बैल झूरी की चरनी पर किस दिशा में खड़े थे? उनकी यह दशा क्यों हुई?
4. हीरा एवं मोती को "मृतक बैल" कब और क्यों कहा गया?
5. परित्यक्त चीनी किला किसे कहा गया? वहाँ लेखक इसलिए गए थे?
6. डकैत लूटने से पहले ही आदमी को क्यों मारते थे?
7. सुमति कौन थे? वे लेखक से कब मिले?
8. तिब्बत की जागीर-व्यवस्था के बारे में लिखिए?
9. भिखारी का वेश बनाकर यात्रा करने के पीछे लेखक का क्या उद्देश्य था?
10. कबीर के अनुसार उच्चकुलीन व्यक्ति कब ऊँचा नहीं माना जाता? उद्धरण सहित लिखिए।
11. कबीर ईश्वर की उपासना करने के लिए क्या उपयुक्त मानते हैं?
12. कबीर ने सच्चे प्रेमी की क्या कसौटी बताई है?
13. संसार में सच्चा संत कौन कहलाता है?
14. लेखिका मृदुला गर्ग की नानी स्वतंत्रता-सेनानी प्यारे लाल शर्मा जी से क्यों मिलना चाहती थीं?

II. निम्नलिखित शब्दों से मूल शब्द तथा प्रत्यय अलग करके लिखये:

1. भुलक्कड़
2. चमकीला
3. लालिमा
4. साहित्यिक
5. पुष्पित

III. निम्नलिखित शब्दों से मूल शब्द, उपसर्ग और प्रत्यय अलग करके लिखये:

1. अधार्मिक
2. प्रतिबंधित

IV. निम्नलिखित उपसर्गों से दो-दो शब्द बनाइये:

अभि, उप, परि, अध, कम, गैर, स्व, खुश

V. निम्नलिखित प्रत्ययों से दो-दो शब्द बनाइये:

आहट, अक्कड़, दार, वान, औना, वाई, आई, कार, ईला

VI. निर्देशानुसार उत्तर दीजिये:

1. "पराधीन" शब्द में प्रयुक्त मूल शब्द तथा उपसर्ग लिखिए।
2. "अति" उपसर्ग से दो शब्द बनाइये।
3. "सजावट" शब्द में प्रयुक्त मूल शब्द तथा प्रत्यय लिखिए।
4. "आस" प्रत्यय लगाकर दो शब्द बनाइये।

VII. अपने क्षेत्र में पेड़-पौधों की अनियंत्रित कटाई को रोकने के लिए जिलाधिकारी को पत्र लिखिए।

नोट: उपर्युक्त कार्य रिवीजन रजिस्टर में करिए।

## **MATHEMATICS**

### GENERAL INSTRUCTIONS:

- WORK SHOULD BE NEAT AND CLEAN.
- WORK SHOULD BE DONE IN FAIR NOTEBOOK OR ANY OTHER NOTEBOOK.

### **WORKSHEET-I**

Answer The following questions :

(1×5=5)

1.Fill in the Blanks: Every natural number is a \_\_\_\_\_ number.

2.Fill in the blanks: Every integer is a \_\_\_\_\_ number

3.Every irrational number is a \_\_\_\_\_ number.

4.Every rational number is

(A) a natural number

(B) an integer

(C) a real number

(D) a whole number

5.Between two rational numbers

(A) there is no rational number

(B) there is exactly one rational number

(C) there are infinitely many rational numbers

(D) there are only rational numbers

Answer the following questions :

(3×5=15)

6.Locate  $\sqrt{2}$ ,  $\sqrt{5}$  and on the number line.

7.If  $a=3+\sqrt{2}$ , then find the value of  $a + \frac{1}{a}$

8..Find three different irrational numbers between the rational numbers  $\frac{6}{7}$  and  $\frac{3}{11}$

9.Show that 0.555555..... can be expressed in the form of  $\frac{p}{q}$ , where  $p$  and  $q$  are integers and  $q$  is not equal to 0 .

10.Evaluate:  $(81)^{\frac{3}{4}}$

## WORKSHEET-II

**Answer the following questions:**

**(1×5=5)**

1. Find the zero of  $p(x) = 3x - 8$ .
2. If  $a + b = 3$ , then find the value of  $a^3 + b^3 - 3ab$ .
3. Find the value of  $a$  if  $x + 3$  is a factor of  $x^3 + 2x^2 + 6x + a$ .
4. What will be the Integral zeroes of the polynomial  $(x + 4)(x - 2)$ .
5. Give one example each of a binomial of degree 25, and of a monomial of degree 200.

**Answer The following questions:**

**(3×5=15)**

6. Factorise:  $8a^3 - 343b^3$
7. Divide the polynomial:  $2x^4 - 8x^3 - 6x - 2$  by  $x - 2$
8. Evaluate :  $104 \times 96$
9. Factorise:  $x^3 - 3x^2 - 9x - 5$
10. Expand the following :  
 $(2a - 3b + 4c)^2$   
 $(3a + 5b + 2c)^2$

## SCIENCE

### Physics

#### Worksheet -1

*General instructions :*

- \* Do your work neatly.
- \* Holiday homework can be done in fair register .

*Q. 1 Very Short Answer Questions.*

- a). Explain how a body can be simultaneously at rest and in motion.
- b). Can displacement be greater than the distance traversed by an object?
- c). Is it possible that the displacement maybe zero but not the distance.
- d). What is the physical significance of zero time?
- e). Can a body have a constant velocity but a varying speed?

**Q.2 Short Answer Questions.**

- a). A particle cover  $1\frac{1}{2}$  circle of radius  $r$ . Find the distance and displacement of the particle.
- b). A train 110 metre long moving with the velocity of 45 kilometres per hour. Find the time it will take to cross a bridge of 1 kilometre long.
- c). A car travels along a straight line for first half time with this speed of 40 kilometres per hour and for the second half time with his speed off 50 kilometres per hour. Find the average speed of the car.
- d). Two persons A and B are walking with a speed of four kilometres per hour and five kilometre per hour respectively in the same direction. How far will be B from A after three hour?
- e). Differentiate in between distance and displacement.

## **Worksheet-2**

**Q.1 Very short answer type question**

- a). What does the speedometer of a car measure.
- b). Is rest and motion are relative terms?
- c). Distinguish between path length and displacement.
- d). Define speed.
- e). Define average velocity.

**Q. 2 Short Answer Questions.**

- a). A train travels from one station to another at the speed of 40 kilometre per hour and returns to the first station at a speed of 60 kilometres per hour calculate the average speed of the train.

- b).A runner travels 1.5 laps around a circular track in a time of 50 seconds . The diameter of the track is 40 metre. Calculate the average velocity.
- c).Define average and instantaneous velocity.
- d).A car accelerates on a straight road from rest to a speed of 180 kilometres per hour in 25 seconds. Assuming uniform acceleration of the car throughout . Find the distance travel in this time.
- e).Define acceleration.

## **CHEMISTRY**

### **General instructions :**

- ?** Do your work neatly.
- ?** Holiday homework can be done in fair register.

### **Q. 1 Very Short Answer Questions.**

- a). \_\_\_\_\_ is the intermixing of different types of matter in their own by the getting into the spaces between them.
- b).The colour of vapours formed on sublimation of iodine solid is\_\_\_\_\_
- c).When a mixture of iron fillings and sulphur powder is heated strongly, a compound formed is\_\_\_\_\_
- d).The temperature of both boiling water and steam is 100°C but steam has more energy because of\_\_\_\_\_
- e). \_\_\_\_\_ helps the sun and the stars to glow and it is created due to high temperature in stars.

### **Q. 2 Short Answer Questions.**

- a). How do you differentiate between solids, liquids and gases on the basis of their melting and boiling points?
- b).The vegetables are cooked better and faster in a pressure cooker. Why is it so?
- c).Why do we feel chilling cold, when we hold a piece of ice in our hand?



- d).**Enumerate the changes that take place inside the matter during the change of states.
- e).**Explain the term density. Arrange different states of matter in increasing order of density.

## **Worksheet -2**

### **Q. 1 Very Short Answer Questions.**

- a)** A substance has no mass. Can we consider it as matter?
- b)** Why do solids generally lack the property of diffusion?
- c)** Does the temperature of liquid increase further when it starts boiling?
- d)** What happens when solid ammonium chloride is heated?
- e)** Does the evaporation of a liquid occur only at a fixed temperature?

### **Q.2 Short Answer Questions.**

- a).** Doctors advice to put strips of wet cloth on the forehead of a person having high fever. Give reason.
- b).**In severe cold weather, a family burnt wood in the room during the night by keeping the doors and windows closed. After sometime, they felt suffocated. They immediately opened the windows and got relief. What did actually happen?
- c).** What is dry ice? How is dry ice formed?
- d).** What do you mean by term humidity ? How does rate of evaporation vary with humidity?
- e).** Dogs generally hang out their tongue in summer. Give reason.

# **BIOLOGY**

## **Assignment 1**

### **Q1. Answer the following questions in short:**

1. Which cell organelle work as kitchen of the cell.
2. What is the outer layer of vacuole called?
3. What is the common between mitochondria and plastids?
4. Who first saw a living cell under microscope?
5. Where are Ribosomes located in the cell?

### **Q2. Answer the following questions:**

1. Why is plasma membrane called a selectively permeable membrane?
2. How is prokaryotic cell different from a Eukaryotic cell?
3. Explain three characteristics of Endoplasmic reticulum.
4. Draw a labelled diagram of animal cell.
5. Explain the structure and function of nucleus.

## **Assignment -2**

### **Q1. Answer the following questions in short:**

1. What does ATP stand for?
2. Who discovered Golgi apparatus?
3. Name the plastid present in the radish.
4. What is the outermost layer found in animal cells?
5. How is smooth endoplasmic reticulum different from rough endoplasmic reticulum in structure.

**Q2. Answer the following questions:**

**Q.1. What are cell organelles? write any two examples.**

**Q 2. Write any two characteristics of Golgi apparatus?**

**Q. 3 Name the cell organelles having double membrane and write their functions.**

**Q. 4 Draw a labelled diagram of plant cell.**

**Q5. Explain the structure of mitochondria with a neat labelled diagram.**

## ***SOCIAL SCIENCE***

### **1. Project on any of disasters (natural or human induced) from Disaster Management**

As per CBSE guidelines, students of Class IX have to submit a handwritten project on Disaster Management.

Use A4 size sheets. Every student has to compulsorily undertake a project on 'one topic' of Disaster Management (following topics to be distributed in the class roll no. wise)

1. Earthquake
2. Floods
3. Cyclone
4. Industrial Disaster
5. Fire hazards.

Project report must contain following sub-topics

- General information, definition and its types
- Major causes
- Effects
- Pre and Post disaster Mitigation measures to be adopted
- Case study

### **2. Art Integrated Project on the states of Arunachal Pradesh and Meghalaya about their general information, geographical information, people, festival, dresses, food, folk culture, famous things**

**Note-** Use A4 size sheets or scrapbook for both the Projects ; Graphics, data, diagrams, maps, pictures can be used. Hand made diagrams will be given extra weightage. The project must be hand written and be completed in 7 to 10 pages. One page each for Certificate, Acknowledgement, Index, and Introduction according to the topic of the project and rest of the pages for detailing out.

### **3. Lab manual assignments relating to chapters covered.**

**4. Draw and colour the political symbols of The French Revolution along with their meanings they stand for in your fair history register.**

5. Completion and Learning of question-answers of the chapters covered (First chapter of all sst subjects)

**Note-** All the tasks should be submitted within first week of July positively.

### ***Computer Applications***

- 1. Create a Pamphlet on Covid -19 Awareness. Apply different corresponding style and formatting on it***
- 2. Learn all the Ques/Ans. and Book work.***

### ***ART INTEGRATED PROJECT***

***TOPIC- Impact of Online Teaching on Students' Education and Health in India during the Pandemic of COVID-19.***

#### ***English***

***Write a diary entry on how online classes are different from the offline classes.***

#### ***Hindi***

***अनुच्छेद लेखन***

## ***Maths***

*Statistical analysis of number of Infected Covid Patient , number of recovered Covid Patient and number of Deaths in Top 5 district of U.P from 15 April to 30 April using Pie Graph , Histogram and Bar Graph.*

*\*Also mention number of deaths of Teachers and its impact on Student's Education in this Pandemic and its cause.*

## ***Science***

*Write a report on use of technology in online education during covid -19.*

*Write three common e learning health issues and how to overcome them.*

*Draw the different types of body postures in which you usually sit during online classes and write their adverse effect.*

## ***Social Science***

*Write 'A Case Study' of your state on Impact of Online Teaching on Students' Education and Health during the Pandemic of Covid-19.*

## ***Computer Applications***

*Make a PowerPoint presentation on Impact of Online Teaching on Students' Education and Health in India during the Pandemic of COVID-19.*